

## INSTRUMENT APPROACH PROCEDURE CHARTS

### IFR TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

#### Civil Airports and Selected Military Airports

ALL USERS: Airports that have Departure Procedures (DPs) designed specifically to assist pilots in avoiding obstacles during the climb to the minimum enroute altitude, and/or airports that have civil IFR take-off minimums other than standard, are listed below. Take-off Minimums and Departure Procedures apply to all runways unless otherwise specified. Altitudes, unless otherwise indicated, are minimum altitudes in MSL.

DPs specifically designed for obstacle avoidance are described below in text, or published separately as a graphic procedure. If the (Obstacle) DP is published as a graphic procedure, its name will be listed below, and it can be found in either this volume (civil), or a separate Departure Procedure volume (military), as appropriate. Users will recognize graphic obstacle DPs by the term "(OBSTACLE)" included in the procedure title; e.g., TETON TWO (OBSTACLE). If not assigned another DP or radar vector by ATC, this procedure may be flown to ensure obstacle clearance.

Graphic DPs designed by ATC to standardize traffic flows, ensure aircraft separation and enhance capacity are referred to as "Standard Instrument Departures (SIDs)". SIDs also provide obstacle clearance and are published under the appropriate airport section. ATC clearance must be received prior to flying a SID.

CIVIL USERS NOTE: FAR 91 prescribes standard take-off rules and establishes take-off minimums for certain operators as follows: (1) Aircraft having two engines or less - one statute mile. (2) Aircraft having more than two engines - one-half statute mile. These standard minima apply in the absence of any different minima listed below.

MILITARY USERS NOTE: Civil (nonstandard) take-off minima are published below. For military take-off minima, refer to appropriate service directives.

#### NAME TAKE-OFF MINIMUMS

##### AKRON, OH

###### AKRON-CANTON REGIONAL

DEPARTURE PROCEDURE: All aircraft climb straight ahead to 1700 before proceeding on course.

###### AKRON FULTON INTL

TAKE-OFF MINIMUMS: **Rwys 1, 7, 19, 25**, 300-1.

DEPARTURE PROCEDURE: **Rwy 1**, climb runway heading to 2100 before turning West. **Rwy 25**, climb runway heading to 2100 before turning north.

##### ANDERSON, IN

###### ANDERSON MUNI-DARLINGTON FIELD

TAKE-OFF MINIMUMS: **Rwys 18, 36**, 300-1.

##### ASHLAND, OH

###### ASHLAND COUNTY

TAKE-OFF MINIMUMS: **Rwys 1, 19**, 300-1.

#### NAME TAKE-OFF MINIMUMS

##### AUBURN, IN

###### DE KALB COUNTY

NOTE: **Rwy 9**, multiple trees beginning 428' from departure end of runway, 227' right of centerline, up to 100' AG/979' MSL. **Rwy 27**, multiple trees beginning 83' from departure end of runway, 207' left of centerline, up to 100' AGL/939' MSL. Multiple tree beginning 1377' from departure end of runway, 316' right of centerline, up to 100' AGL/930' MSL.

##### BARNESVILLE, OH

###### BARNESVILLE-BRADFIELD

TAKE-OFF MINIMUMS: **Rwys 9, 27**, 300-1.

##### BEACH CITY, OH

###### BEACH CITY

TAKE-OFF MINIMUMS: **Rwys 10, 28**, 300-1.

##### BELLEFONTAINE, OH

###### BELLEFONTAINE REGIONAL

DEPARTURE PROCEDURE: **Rwy 7**, climb to 2100 via heading 074° before proceeding on course.

15 FEB 2007 to 15 MAR 2007

15 FEB 2007 to 15 MAR 2007



# TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES



C2

## BLOOMINGTON, IN MONROE COUNTY

NOTE: **Rwy 6**, trees 2185' from departure end of runway, 755' left of centerline, 81' AGL/967' MSL. **Rwy 24**, trees 2325' from departure end of runway, 830' right of centerline, 87' AGL/1019' MSL. **Rwy 17**, trees 854' from departure end of runway, 595' left of centerline, 67' AGL/862' MSL. **Rwy 35**, trees 2376' from departure end of runway, 905' left of centerline, 85' AGL/932' MSL.

## BLUFFTON, OH BLUFFTON

DEPARTURE PROCEDURE: **Rwy 5**, climb runway heading to 2000' before turning left.

## BOWLING GREEN, OH WOOD COUNTY

TAKE-OFF MINIMUMS: **Rwys 18, 28, 36**, 300-1.

## BRAZIL, IN BRAZIL CLAY COUNTY

TAKE-OFF MINIMUMS: **Rwys 9, 27**, 300-1.

## BUCYRUS, OH PORT BUCYRUS-CRAWFORD COUNTY

TAKE-OFF MINIMUMS: **Rwys 4, 9, 22, 27**, 300-1.

## CADIZ, OH HARRISON COUNTY

TAKE-OFF MINIMUMS: **Rwy 13, 31**, 300-1.

## CALDWELL, OH NOBLE COUNTY

TAKE-OFF MINIMUMS: **Rwy 5, 23**, 400-1.

DEPARTURE PROCEDURE: **Rwy 23**, climb runway heading to 1500 before turning.

## CAMBRIDGE, OH CAMBRIDGE MUNI

TAKE-OFF MINIMUMS: **Rwys 4, 22**, 500-1 or std. with a min. climb of 350' per NM to 1500.

## CARROLLTON, OH CARROLL COUNTY-TOLSON

TAKE-OFF MINIMUMS: **Rwy 7, 25**, 300-1.

NOTE: **Rwy 7**, 100' AGL trees 1800' from departure end of runway, 400' left of centerline. **Rwy 25**, 100' AGL trees 200' from departure end of runway, 400' left of centerline.

## CELINA, OH LAKEFIELD

TAKE-OFF MINIMUMS: **Rwy 8**, 300-1.

## CHILLICOTHE, OH ROSS COUNTY

TAKE-OFF MINIMUMS: **Rwy 23**, 400-1 or std. with min. climb of 340' per NM to 1300. **Rwy 30**, 300-1 or std. with a min. climb of 460' per NM to 1100.

DEPARTURE PROCEDURE: **Rwy 5**, climb runway heading to 1500 before turning right. **Rwy 12**, climb runway heading to 2000 before turning right.

**Rwy 23**, climb runway heading to 1500 before turning left.

## CINCINNATI, OH CINCINNATI MUNI AIRPORT-LUNKEN FIELD

TAKE-OFF MINIMUMS: **Rwy 3L**, 500-2 or std. with a min. climb of 360' per NM to 1000. **Rwy 3R**, 500-2 or std. with a min. climb of 330' per NM to 1000. **Rwy 7**, 500-2 or std. with a min. climb of 400' per NM to 1000.

**Rwy 21L**, 600-2 or std. with a min. climb of 350' per NM to 1200. **Rwy 21R**, 600-2 or std. with a min. climb of 430' per NM to 1200. **Rwy 25**, 600-2 or std. with a min. climb of 550' per NM to 1300.

DEPARTURE PROCEDURE: **Rwys 3L, 3R, 7, 21L, 21R**, climb runway heading to 2500 before turning on course. **Rwy 25**, climb runway heading to 900, then climbing left turn to 2500 via heading 180° before proceeding on course.

## CLEVELAND, OH BURKE-LAKEFRONT

TAKE-OFF MINIMUMS: **Rwy 6L**, 400-2 or std. w/ a min. climb of 400' per NM to 1800. **Rwy 6R**, 400-2 or std. w/ a min. climb of 360' per NM to 1800. **Rwy 24L**, 300-1½ or std. w/ a min. climb of 527' per NM to 1900. **Rwy 24R**, 200-1 or std. w/ a min. climb of 527' per NM to 1900.

DEPARTURE PROCEDURE: **Rwys 6L/6R**, climb via heading 065° to 1800 before proceeding on course. **Rwys 24L/24R**, climbing right turn via CXR VOR/DME R-272 to 1900 before proceeding on course.

NOTE: **Rwy 6L**, obstruction light on hangar 1127' from departure end of runway, 780' right of centerline, 575' AGL/622' MSL. Tower 5589' from departure end of runway, 1760' right of centerline, 237' AGL/857' MSL. Stacks 1.6 NM from departure end of runway, 883' right of centerline, 312' AGL/898' MSL. **Rwy 6R**, obstruction light on WSK 166' from departure end of runway, 241' left of centerline, 21' AGL/590' MSL. Stacks 1.8 NM from departure end of runway, 381' right of centerline, 312' AGL/898' MSL. Tower 5676' from departure end of runway, 1999' right of centerline, 108' AGL/734' MSL. Tower 1.1 NM from departure end of runway, 1258' right of centerline, 237' AGL/857' MSL. **Rwy 24L**, monument 1257' from departure end of runway, 10' left of centerline, 55' AGL/630' MSL. Bridge 1.1 NM from departure end of runway, 2006' left of centerline, 208' AGL/792' MSL. Antenna 227' from departure end of runway, 505' left of centerline, 37' AGL/608' MSL. Antenna on building 1529' from departure end of runway, 2340' left of centerline, 483' AGL/1126' MSL. Building 2805' from departure end of runway, 3340' left of centerline, 949' AGL/1603' MSL. **Rwy 24R**, crane 2228' from departure end of runway, 296' left of centerline, 136' AGL/707' MSL. Antenna 2783' from departure end of runway, 1155' left of centerline, 186' AGL/764' MSL. Multiple buildings 2787' from departure end of runway, 3873' left of centerline, up to 949' AGL/1603' MSL. Antenna on building 1529' from departure end of runway, 2839' left of centerline, 483' AGL/1126' MSL.

15 FEB 2007 to 15 MAR 2007

15 FEB 2007 to 15 MAR 2007



# TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES



C2

EC-2



07018

C3

**CLEVELAND, OH (CON'T)****CLEVELAND-HOPKINS INTL**

DEPARTURE PROCEDURE: **Rwys 6L, 6R, 10**, climbing left turn inbound to DJB VOR/DME via R-082 to 2600 before proceeding on course.

NOTE: **Rwy 6R**, road 333' from departure end of runway, 510' left of centerline, up to 25' AGL/797' MSL, obstruction light on glideslope 619' from departure end of runway, 367' right of centerline, 8' AGL/814' MSL.

**Rwy 10**, sign 1236' from departure end of runway, 717' left of centerline, 41' AGL/830' MSL, light pole 1746' from departure end of runway, 786' right of centerline, 53' AGL/842' MSL, sign 2480' from departure end of runway, 955' left of centerline, 68' AGL/857' MSL, tower 4190' from departure end of runway, 1482' right of centerline, 135' AGL/924' MSL. **Rwy 24R**, tower 2565' from departure end of runway, 1028' right of centerline, 191' AGL/870' MSL, tree 3743' from departure end of runway, 857' left of centerline, 101' AGL/870' MSL.

**Rwy 28**, road 304' from departure end of runway, 4' left of centerline, 14' AGL/773' MSL, antenna on building 308' from departure end of runway, 240' left of centerline, 6' AGL/802' MSL, multiple trees beginning at 1046' from departure end of runway, 346' left of centerline, up to 60' AGL/819' MSL.

**CUYAHOGA COUNTY**

NOTE: **Rwy 6**, trees beginning 2127' from departure end of runway, 975' right of centerline, up to 109' AGL/982' MSL. Tree 2595' from departure end of runway, 740' left of centerline, 93' AGL/947' MSL. **Rwy 24**, multiple trees beginning 755' from departure end of runway, 658' right of centerline, up to 100' AGL/948' MSL. Multiple trees beginning 1833' from departure end of runway, 681' left of centerline, up to 100' AGL/974' MSL.

**COLUMBUS, OH****PORT COLUMBUS INTL**

DEPARTURE PROCEDURE: **Rwys 28L, 28R**, climb runway heading to 2700' before turning left.

**CONNERSVILLE, IN****METTEL FIELD**

TAKE-OFF MINIMUMS: **Rwys 4, 22**, NA-VFR use only.

DEPARTURE PROCEDURE: **Rwy 18**, climb via heading 185° to 1500 before proceeding on course.

NOTE: **Rwy 18**, railroad 311' from departure end of runway, 580' left of centerline, 23' AGL/882' MSL. Multiple trees beginning 2280' from departure end of runway, 100' left of centerline, up to 113' AGL/974' MSL. **Rwy 36**, road 120' from departure end of runway, 301' right of centerline, 15' AGL/884' MSL. Railroad 649' from departure end of runway, 578' right of centerline, 23' AGL/892' MSL. Multiple trees beginning 3400' from departure end of runway, on centerline, up to 92' AGL/959' MSL.

**COSHOCTON, OH****RICHARD DOWNING**

TAKE-OFF MINIMUMS: **Rwys 4, 22**, 300-1.

**DAYTON, OH****DAYTON-WRIGHT BROTHERS**

NOTE: **Rwy 2**, multiple trees and road beginning 440' from departure end of runway, 257' left of centerline, up to 100' AGL/1053' MSL. Multiple trees beginning 672' from departure end of runway, 17' right of centerline, up to 100' AGL/1017' MSL. **Rwy 20**, multiple trees beginning 189' from departure end of runway, 494' left of centerline, up to 100' AGL/1009' MSL. Multiple poles and trees beginning 323' from departure end of runway, 364' right of centerline, up to 100' AGL/1026' MSL.

**GREENE COUNTY-LEWIS A. JACKSON REGIONAL**

TAKE-OFF MINIMUMS: **Rwys 7, 25**, 300-1.

**JAMES M. COX DAYTON INTL**

TAKE-OFF MINIMUMS: **Rwy 18**, 300-1 or std. with a min. climb of 250' per NM to 1300'.

NOTES: **Rwy 18**, multiple tanks 4224' from departure end of runway, 1417' left of centerline, 173' AGL/1163' MSL.

**EAST LIVERPOOL, OH****COLUMBIANA COUNTY**

TAKE-OFF MINIMUMS: **Rwys 7, 25**, 400-1.

**ELYRIA, OH****ELYRIA**

NOTE: **Rwy 9**, road 1198' from departure end of runway, 275' left of centerline, 15' AGL/774' MSL. Tree 2077' from departure end of runway, 778' right of centerline, 100' AGL/859' MSL. **Rwy 27**, tree 68' from departure end of runway, 237' left of centerline, 100' AGL/859' MSL. Tree 527' from departure end of runway, 454' right of centerline, 100' AGL/854' MSL.

**EVANSVILLE, IN****EVANSVILLE REGIONAL**

TAKE-OFF MINIMUMS: **Rwys 9, 27, 36**, 300-1.

**Rwys 18, 22**, 700-1 or std. with a min. climb of 205' per NM to 1300.

**FORT WAYNE, IN****FORT WAYNE INTL**

DEPARTURE PROCEDURE: **Rwy 32**, climb runway heading to 1300' before turning left.

**SMITH FIELD**

TAKE-OFF MINIMUMS: **Rwys 5, 13, 31**, 300-1.

**Rwy 23**, 800-2½ or 300-1 with a min. climb of 400' per NM to 2000.

DEPARTURE PROCEDURE: **Rwys 5, 13**, climb to 2000 on heading 090 before turning south. **Rwys 23, 31**, climb to 2000 on heading 270 before turning south.

**FREMONT, OH****FREMONT**

TAKE-OFF MINIMUMS: **Rwys 9, 27**, 300-1.

15 FEB 2007 to 15 MAR 2007

15 FEB 2007 to 15 MAR 2007

07018



EC-2

C3



07018

## TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES



C4

## GALLIPOLIS, OH

## GALLIA-MEIGS REGIONAL

TAKE-OFF MINIMUMS: **Rwy 5**, 500-1.DEPARTURE PROCEDURE: **Rwy 5**, climb straight ahead to 2100 before proceeding on course.**Rwy 23**, climb via 215° track to 1500 before proceeding on course.

## GARY, IN

## GARY/CHICAGO INTL

TAKE-OFF MINIMUMS: **Rwy 2**, 300-1 or std. with a min. climb of 250' per NM to 900. **Rwy 30**, 300-1.DEPARTURE PROCEDURE: **Rwy 12**, climb to 1200 before proceeding on course. **Rwy 20**, climb to 1200 on heading 220° before proceeding on course.

## GEORGETOWN, OH

## BROWN COUNTY

TAKE-OFF MINIMUMS: **Rwys 17, 35**, 300-1.

## GREENSBURG, IN

## GREENSBURG-DECATUR COUNTY

TAKE-OFF MINIMUMS: **Rwy 36**, 300-1.

## GRIFFITH, IN

## GRIFFITH - MERRILLVILLE

TAKE-OFF MINIMUMS: **Rwy 8**, 400-1 or std. with a min. climb of 480' per NM to 1100'.DEPARTURE PROCEDURE: **Rwy 8**, climb via heading 100° to 1100 before proceeding on course.NOTE: **Rwy 8**, 4 towers 5098' from departure end of runway, 1768' left of centerline, 255' AGL/895' MSL. **Rwy 26**, building 440' from departure end of runway, 155' right of centerline, 11' AGL/646' MSL.

## HAMILTON, OH

## BUTLER COUNTY REGIONAL

TAKE-OFF MINIMUMS: **Rwy 11**, 800-3 or std. with a min. climb of 230' per NM to 1600. **Rwy 29**, 300-1 or std. with a min. climb of 420' per NM to 900.DEPARTURE PROCEDURE: **Rwy 11**, climb to 1700 via heading 110° before turning on course. **Rwy 29**, climb to 1700 via heading 290° before turning on course.NOTE: **Rwy 11**, trees 2670' from departure end of runway, 1200' left of centerline, 100' AGL/757' MSL. **Rwy 29**, trees 3692' from departure end of runway, 1328' right of centerline, 100' AGL/835' MSL.

## HARRISON, OH

## CINCINNATI WEST

TAKE-OFF MINIMUMS: **Rwys 9, 27**, 600-1. **Rwys 1, 19**, 400-1.

## HILLSBORO, OH

## HIGHLAND COUNTY

TAKE-OFF MINIMUMS: **Rwys 5, 23**, 300-1.

## HUNTINGBURG, IN

## HUNTINGBURG

TAKE-OFF MINIMUMS: **Rwy 9**, 300-1.

## HUNTINGTON, IN

## HUNTINGTON MUNI

TAKE-OFF MINIMUMS: **Rwy 9**, 400-1.

## INDIANAPOLIS, IN

## EAGLE CREEK AIRPARK

DEPARTURE PROCEDURE: **Rwy 3**, climb to 2000' on 360° heading before turning east. **Rwy 21**, climb runway heading to 1200 before turning.

## GREENWOOD MUNI

TAKE-OFF MINIMUMS: **Rwy 19**, 300-1.DEPARTURE PROCEDURE: **Rwy 1**, climb runway heading to 2500 before turning right.

## INDIANAPOLIS INTL

NOTES: **Rwy 5R**, tower 3756' from departure end of runway, 1048' left of centerline, 111' AGL/901' MSL. Rod on obstruction light dome 3765' from departure end of runway, 1076' left of centerline, 107' AGL/901' MSL. **Rwy 5L**, rod on obstruction light MCWV tower 5052' from departure end of runway, 140' right of centerline, 129' AGL/923' MSL. Tower 5073' from departure end of runway, 93' right of centerline, 128' AGL/923' MSL. **Rwy 23R**, tree 5159' from departure end of runway, 1144' right of centerline, 101' AGL/870' MSL. Tree 3295' from departure end of runway, 948' right of centerline, 78' AGL/822' MSL. **Rwy 32**, antenna 2370' from departure end of runway, 755' right of centerline, 70' AGL/849' MSL. Tree 2244' from departure end of runway, 707' right of centerline, 66' AGL/845' MSL.

## INDIANAPOLIS METROPOLITAN

TAKE-OFF MINIMUMS: **Rwys 15, 33**, 300-1.DEPARTURE PROCEDURE: **Rwys 15, 33**, climb on runway heading to 1400 before turning westbound.

## MOUNT COMFORT

DEPARTURE PROCEDURE: **Rwy 25**, climb 2000 on 270° heading before turning south.

## JACKSON, OH

## JAMES A. RHODES

TAKE-OFF MINIMUMS: **Rwy 1**, 300-1 or std. with a min. climb of 559' per NM to 1000. **Rwy 19**, 300-1 or std. with a min. climb of 455' per NM to 1100.NOTE: **Rwy 1**, tree 2572' from departure end of runway, 613' left of centerline, 100' AGL/936' MSL. **Rwy 19**, tree 4224' from departure end of runway, 1367' right of centerline, 100' AGL/979' MSL.

## JEFFERSONVILLE, IN

## CLARK REGIONAL

TAKE-OFF MINIMUMS: **Rwy 14**, 300-1.DEPARTURE PROCEDURE: **Rwys 14, 18, 36**, climb on runway heading to 2000 before turning west. **Rwy 32**, climb to 2000 heading 360° before turning west.

## KENDALLVILLE, IN

## KENDALLVILLE MUNI

DEPARTURE PROCEDURE: **Rwys 10, 28**, climb runway heading to 1500 before turning south.

15 FEB 2007 to 15 MAR 2007

15 FEB 2007 to 15 MAR 2007

07018



## TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES



EC-2

C4

## KENTLAND, IN

### KENTLAND MUNI

TAKE-OFF MINIMUMS: **Rwy 27**, 400-1.

DEPARTURE PROCEDURE: **Rwy 27**, turn left as soon as practicable; climb to 1000' on 240° heading before proceeding on course.

## KENTON, OH

### HARDIN COUNTY

TAKE-OFF MINIMUMS: **Rwys 4, 22**, 300-1.

## LA PORTE, IN

### LA PORTE MUNI

TAKE-OFF MINIMUMS: **Rwys 13, 20**, 300-1.

## LAFAYETTE, IN

### PURDUE UNIVERSITY

TAKE-OFF MINIMUMS: **Rwy 5**, 300-1.

DEPARTURE PROCEDURE: **Rwy 5**, climb to 1000 before turning on course.

## LANCASTER, OH

### FAIRFIELD COUNTY

TAKE-OFF MINIMUMS: **Rwy 10**, 400-1.

**Rwy 28**, 300-1.

## LONDON, OH

### MADISON COUNTY

TAKE-OFF MINIMUMS: **Rwy 27**, 300-1.

## LORAIN/ELYRIA, OH

### LORAIN COUNTY REGIONAL

**Rwy 7**, multiple trees beginning 973' from departure end of runway, 293' right of centerline, up to 75' AGL/865' MSL. Multiple trees beginning 839' from departure end of runway, 636' left of centerline, up to 47' AGL/836' MSL. **Rwy 25**, bush 583' from departure end of runway, 468' right of centerline, 10' AGL/809' MSL. Tree 1587' from departure end of runway, 698' left of centerline, 44' AGL/838' MSL. Tree 2277' from departure end of runway, 435' right of centerline, 58' AGL/854' MSL.

## LOWELL, IN

### LOWELL

TAKE-OFF MINIMUMS: **Rwy 36**, 300-1.

## MADISON, IN

### MADISON MUNI

TAKE-OFF MINIMUMS: **Rwys 3, 21**, 300-1.

DEPARTURE PROCEDURE: **Rwys 3, 21**, climb runway heading to 1500 before turning southeast.

## MARION, IN

### MARION MUNI

NOTES: **Rwy 4**, trees 938' from departure end of runway, 696' right of centerline, 67' AGL/914' MSL. **Rwy 15**, trees 627' from departure end of runway, 263' right of centerline, 82' AGL/929' MSL. **Rwy 22**, trees 1144' from departure end of runway, 783' left of centerline, 89' AGL/936' MSL. **Rwy 33**, trees 1005' from departure end of runway, 728' left of centerline, 99' AGL/946' MSL.

## MARYSVILLE, OH

### UNION COUNTY

TAKE-OFF MINIMUMS: **Rwy 9**, 300-1.

## MEDINA, OH

### MEDINA MUNI

NOTE: **Rwy 1**, multiple trees beginning 562' from departure end of runway, 588' left of centerline, up to 100' AGL/1279' MSL. Multiple trees beginning 1925' from departure end of runway, on centerline, up to 100' AGL/1319' MSL. **Rwy 9**, multiple trees beginning 305' from departure end of runway, 396' right of centerline, up to 100' AGL/1249' MSL, tower 3627' from departure end of runway, 534' left of centerline, 150' AGL/1282' MSL. **Rwy 19**, multiple trees beginning at departure end of runway, 112' left of centerline, up to 100' AGL/1249' MSL. **Rwy 27**, multiple trees beginning at departure end of runway, 345' left of centerline, up to 100' AGL/1319' MSL, multiple trees beginning at departure end of runway, 366' right of centerline, up to 100' AGL/1279' MSL.

## MICHIGAN CITY, IN

### MICHIGAN CITY MUNI

TAKE-OFF MINIMUMS: **Rwy 2**, 300-1.

DEPARTURE PROCEDURE: **Rwy 20**, climb to 1300 on runway heading before turning east.

## MIDDLEFIELD, OH

### GEAUGA COUNTY

NOTE: **Rwy 11**, railroad 331' from departure end of runway, 315' left of centerline, 23' AGL/1182' MSL. Trees 3144' from departure end of runway, 671' left of centerline, 100' AGL/1249' MSL. **Rwy 29**, railroad 349' from departure end of runway, 521' left of centerline, 23' AGL/1212' MSL. Multiple buildings 993' from departure end of runway, 294' right of centerline, 40' AGL/1239' MSL. Trees 1875' from departure end of runway, 791' right of centerline, 100' AGL/1319' MSL. Tank 2251' from departure end of runway, 578' right of centerline, 125' AGL/1315' MSL.

## MIDDLETOWN, OH

### HOOK FIELD MUNI

TAKE-OFF MINIMUMS: **Rwys 8, 23**, 300-1.

**Rwy 26**, 400-1.

DEPARTURE PROCEDURE: **Rwys 5, 8, 23, 26**, climb on runway heading to 1700' before proceeding on course.

## MILLERSBURG, OH

### HOLMES COUNTY

TAKE-OFF MINIMUMS: **Rwys 9, 27**, 300-1.

## MONTICELLO, IN

### WHITE COUNTY

TAKE-OFF MINIMUMS: **Rwy 36**, 600-1 or std. with a min. climb of 250' per NM to 1300.

## MT. GILEAD, OH

### MORROW COUNTY

TAKE-OFF MINIMUMS: **Rwys 10, 28**, 300-1.



# TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES



C6

## MUNCIE, IN

### DELAWARE COUNTY-JOHNSON FIELD

NOTE: **Rwy 2**, multiple trees beginning 888' from departure end of runway, 412' right of centerline, up to 47' AGL/980' MSL. Tree and towers beginning 2554' from departure end of runway, 46' left of centerline, up to 113' AGL/1046' MSL. **Rwy 14**, tree 2061' from departure end of runway, 1004' right of centerline, 69' AGL/1005' MSL. **Rwy 20**, tree 1463' from departure end of runway, 564' left of centerline, 82' AGL/1019' MSL. Multiple trees beginning 1119' from departure end of runway, 171' right of centerline, up to 62' AGL/999' MSL. **Rwy 32**, multiple bushes beginning 86' from departure end of runway, 447' left of centerline, up to 12' AGL/940' MSL.

## NAPPANEE, IN

### NAPPANEE MUNI

TAKE-OFF MINIMUMS: **Rwy 9**, 300-1.

## NEW LEXINGTON, OH

### PERRY COUNTY

TAKE-OFF MINIMUMS: **Rwys 8, 26**, 300-1.

## NEW PHILADELPHIA, OH

### HARRY CLEVER FIELD

TAKE-OFF MINIMUMS: **Rwys 11, 29**, 600-1. **Rwy 14**, 500-1 or std. with a min. climb to 330' per NM to 1600. **Rwy 32**, 500-1 or std. with a min. climb 380' per NM to 1600. DEPARTURE PROCEDURE: **Rwys 11, 14, 29, 32**, climb runway heading to 1600 before turning.

## NEWARK, OH

### NEWARK-HEATH

TAKE-OFF MINIMUMS: **Rwy 9**, 600-1. **Rwy 27**, 300-1. DEPARTURE PROCEDURE: **Rwy 27**, climb runway heading to 1400 before proceeding on course.

## NORWALK, OH

### NORWALK-HURON COUNTY

TAKE-OFF MINIMUMS: **Rwys 10, 28**, 300-1.

## OXFORD, OH

### MIAMI UNIVERSITY

TAKE-OFF MINIMUMS: **Rwys 5, 23**, 300-1.

## PAINESVILLE, OH

### CONCORD AIRPARK

TAKE-OFF MINIMUMS: **Rwy 20**, 400-1½ or std. w/a min. climb of 310' per NM to 1500. NOTE: **Rwy 2**, numerous trees beginning 503' from departure end of runway, 146' left of centerline, up to 100' AGL/1039' MSL. **Rwy 20**, numerous trees beginning 544' from departure end of runway, 25' right of centerline, up to 200' AGL/1349' MSL. Tower 1.2 NM from departure end of runway, 2020' right of centerline, 114' AGL/1223' MSL.

## PERU, IN

### PERU MUNI

NOTE: **Rwy 1**, multiple trees beginning 2201' from departure end of runway, 321' left of centerline, 100' AGL/879' MSL. Road plus vehicle beginning 407' from departure end of runway, 1524' right of centerline, 15' AGL/794' MSL. Trees beginning 1656' from departure end of runway, 815' right of centerline, 100' AGL/879' MSL. **Rwy 19**, multiple trees beginning 44' from departure end of runway, 204' left of centerline, 100' AGL/869' MSL. Multiple trees beginning 588' from departure end of runway, 134' right of centerline, 100' AGL/859' MSL.

## PHILLIPSBURG, OH

### PHILLIPSBURG

TAKE-OFF MINIMUMS: **Rwy 21**, 300-1.

## PLYMOUTH, IN

### PLYMOUTH MUNI

TAKE-OFF MINIMUMS: **Rwys 10, 28**, 300-1.

## PORT CLINTON, OH

### CARL R. KELLER FIELD

TAKE-OFF MINIMUMS: **Rwys 9, 18, 36**, 300-1. **Rwy 27**, 700-1.

## PORTSMOUTH, OH

### GREATER PORTSMOUTH REGIONAL

DEPARTURE PROCEDURE: **Rwy 18**, climb heading 170° to 1200 before proceeding on course.

## RENSELAER, IN

### JASPER COUNTY

TAKE-OFF MINIMUMS: **Rwys 9, 18, 27, 36**, 300-1. DEPARTURE PROCEDURE: **Rwys 9, 18, 27, 36**, climb to 1100 on runway heading before proceeding on course.

## ST. CLAIRSVILLE, OH

### ALDERMAN

TAKE-OFF MINIMUMS: **Rwys 1, 19**, 300-1. DEPARTURE PROCEDURE: **Rwys 1, 19**, climb on runway heading to 1800 before proceeding on course.

## SALEM, OH

### SALEM AIRPARK, INC

DEPARTURE PROCEDURE: **Rwys 10, 28**, climb runway heading to 2200 before turning south.

## SANDUSKY, OH

### GRIFFING-SANDUSKY

TAKE-OFF MINIMUMS: **Rwys 9, 18, 27**, 300-1.

## SEBRING, OH

### TRI-CITY

DEPARTURE PROCEDURE: **Rwys 17, 35**, climb runway heading to 3000 before turning east.

15 FEB 2007 to 15 MAR 2007

15 FEB 2007 to 15 MAR 2007

07018



# TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES



C6

EC-2

## SHELBY, OH

SHELBY COMMUNITY

TAKE-OFF MINIMUMS: **Rwys 3, 18, 21, 36**, 300-1.

## SHELBYVILLE, IN

SHELBYVILLE MUNI

DEPARTURE PROCEDURE: **Rwy 1**, climb runway heading to 1400 before turning west on course.

**Rwys 9, 19**, climb runway heading to 1300 before turning on course. **Rwy 27**, climb to 1500 on heading 240° before turning north on course.

## SIDNEY, OH

SIDNEY MUNI

TAKE-OFF MINIMUMS: **Rwys 5, 10, 23**, 300-1. **Rwy 28**, 300-1 or std. with a min. climb of 350' per NM to 1300.

## SOUTH BEND, IN

SOUTH BEND REGIONAL

TAKE-OFF MINIMUMS: **Rwys 9L, 27R**, 300-1.

DEPARTURE PROCEDURE: **Rwys 9R, 9L** climb runway heading to 2000' before turning South. **Rwy 18**, climb runway heading to 2000' before turning east.

## STEUBENVILLE, OH

JEFFERSON COUNTY AIRPORT

DEPARTURE PROCEDURE: **Rwy 14**, climb runway heading to 2200 before turning north.

## SULLIVAN, IN

SULLIVAN COUNTY

TAKE-OFF MINIMUMS: **Rwys 18, 36**, 200-1 or std. with a min. climb of 320' per NM to 1800.

DEPARTURE PROCEDURE: **Rwy 18**, climb runway heading to 1500 before turning west on course.

**Rwys 18, 36**, climb runway heading to 1800 before turning east on course.

## TELL CITY, IN

PERRY COUNTY MUNI

TAKE-OFF MINIMUMS: **Rwy 31**, 300-1.

## TERRE HAUTE, IN

SKY KING

TAKE-OFF MINIMUMS: **Rwys 8, 18**, 300-1.

DEPARTURE PROCEDURE: **Rwy 26**, climb to 1400 on runway heading before turning south. **Rwy 18**, climb to 1400 on runway heading before turning west.

## TIFFIN, OH

SENECA COUNTY

TAKE-OFF MINIMUMS: **Rwys 6, 24**, 300-1.

## TOLEDO, OH

METCALF FIELD

TAKE-OFF MINIMUMS: **Rwys 14, 22, 32**, 300-1. **Rwy 4**, 2100-2 or std. with a min. climb of 300' per NM to 2100.

DEPARTURE PROCEDURE: **Rwys 14, 22, 32**, climb runway heading to 2000 before turning.

## TOLEDO EXPRESS

TAKE-OFF MINIMUMS: **Rwy 16**, 300-1 or std. with a min. climb of 260' per NM to 1000'.

DEPARTURE PROCEDURE: **Rwy 25**, climb runway heading to 1100' before turning.

## UPPER SANDUSKY, OH

WYANDOT COUNTY

TAKE-OFF MINIMUMS: **Rwy 36**, 300-1.

## VAN WERT, OH

VAN WERT COUNTY

TAKE-OFF MINIMUMS: **Rwys 9, 18, 36**, 300-1.

## VERSAILLES, OH

DARKE COUNTY

TAKE-OFF MINIMUMS: **Rwys 9, 27**, 300-1.

CAUTION: 50' unlighted trees left side at departure end of runway.

## VINCENNES, IN

O'NEAL

TAKE-OFF MINIMUMS: **Rwys 3, 9**, 300-1. **Rwy 32**, 400-1.

## WADSWORTH, OH

WADSWORTH MUNI

TAKE-OFF MINIMUMS: **Rwy 10**, 600-2. **Rwys 20, 28**, 300-1. **Rwy 2**, 700-2 or std. with a min. climb of 250' per NM to 2000.

## WAPAKONETA, OH

NEIL ARMSTRONG

TAKE-OFF MINIMUMS: **Rwys 18, 26, 36**, 300-1.

## WARSAW, IN

WARSAW MUNI

DEPARTURE PROCEDURE: **Rwy 36**, climb to 1200 on runway heading before turning west.

## WASHINGTON, IN

DAVISS COUNTY

TAKE-OFF MINIMUMS: **Rwy 18**, 300-1.

## WASHINGTON COURT HOUSE, OH

FAYETTE COUNTY

TAKE-OFF MINIMUMS: **Rwy 23**, 400-1 or std. with a min. climb gradient of 260' per NM to 1400.

DEPARTURE PROCEDURE: **Rwy 5**, climb runway heading to 1300 before turning east.



## WAUSEON, OH

FULTON COUNTY

TAKE-OFF MINIMUMS: **Rwys 9, 27**, 300-1.

## WAVERLY, OH

PIKE COUNTY

TAKE-OFF MINIMUMS: **Rwy 25**, 300-1.

NOTE: **Rwy 25**, 60' AGL trees 500' from departure end of runway 170' left centerline.

## WEST UNION, OH

ALEXANDER SALAMON

TAKE-OFF MINIMUMS: **Rwys 5, 23**, 300-1.

DEPARTURE PROCEDURE: **Rwys 5, 23**, climb straight ahead to 1700 before turning west.

## WILLARD, OH

WILLARD

TAKE-OFF MINIMUMS: **Rwys 10, 28**, 300-1.

DEPARTURE PROCEDURE: **Rwys 10, 28**, climb runway heading to 1500 before proceeding on course.

## WILLOUGHBY, OH

WILLOUGHBY LOST NATION MUNI

DEPARTURE PROCEDURE: **Rwy 10**, climb via heading 099° to 1600 before proceeding on course.

**Rwy 23**, climb via heading 233° to 1400 before proceeding on course. **Rwy 28**, climb via heading 279° to 1400 before proceeding on course.

NOTE: **Rwy 5**, tree 1453' from departure end of runway, 725' right of centerline, 100' AGL/724' MSL. Building 509' from departure end of runway, 429' right of centerline, 20' AGL/644' MSL. **Rwy 10**, pole 663' from departure end of runway, 64' right of centerline, 52' AGL/675' MSL. **Rwy 23**, tree 634' from departure end of runway, 561' right of centerline, 100' AGL/724' MSL. Stacks 1.8 NM from departure end of runway, 1 NM right of centerline, 600' AGL/1207' MSL. **Rwy 28**, tree 1336' from departure end of runway, 699' left of centerline, 100' AGL/724' MSL, building 1101' from departure end of runway, 337' right of centerline, 35' AGL/661' MSL, stacks 2.1 NM from departure end of runway, 4444' left of centerline, 600' AGL/1207' MSL.

## WILMINGTON, OH

CLINTON FIELD

TAKE-OFF MINIMUMS: **Rwy 3**, 300-1.

## WOODSFIELD, OH

MONROE COUNTY

TAKE-OFF MINIMUMS: **Rwy 25**, 300-1.

## WOOSTER, OH

WAYNE COUNTY

TAKE-OFF MINIMUMS: **Rwy 28**, 300-1.

## WRIGHT-PATTERSON AFB (KFFO)

DAYTON, OH

1½"

\* Or standard with a minimum climb of 240'/NM to 1100.

Rwy 5R, Climb on track 050° until reaching 1100.

TAKE-OFF OBSTACLES: **Rwy 23L**: 43' AGL

VORTAC,

850' from departure end of rwy, 662' right of centerline.

Rwy 5L: Up to 105' AGL tree line beginning 3000' from departure end of Rwy, 700' right of centerline to 5100' from departure end of Rwy, 1300' left of centerline.

## YOUNGSTOWN, OH

LANSDOWNE

TAKE-OFF MINIMUMS: **Rwy 2**, 300-1. **Rwy 20**, 1500-2.

DEPARTURE PROCEDURE: **Rwy 2**, climb runway heading to 1500 then climbing right turn to 2500 via heading 090° before turning southbound. **Rwy 20**, climb visually over the airport to 2700 or until RADAR contact is established before proceeding south.

## YOUNGSTOWN ELSENER METRO

TAKE-OFF MINIMUMS: **Rwys 10, 18, 28**, 300-1.

DEPARTURE PROCEDURE: **Rwy 36**, climb to 1500, then climbing right turn via heading 090° to 2600 before proceeding north. **Rwys 10, 28**, climb runway heading to 2600 before turning north.

## YOUNGSTOWN-WARREN, OH

YOUNGSTOWN-WARREN REGIONAL

TAKE-OFF MINIMUMS: **Rwy 23**, 300-1.

## ZANESVILLE, OH

ZANESVILLE MUNI

NOTE: **Rwy 22**, tree 303' from departure end of runway, 427' left of centerline, 948' MSL. Tree 182' from departure end of runway, 350' right of centerline, 942' MSL. **Rwy 34**, tree 2370' from departure end of runway, 189' left of centerline, 968' MSL. Tree 2309' from departure end of runway, 388' left of centerline, 962' MSL.